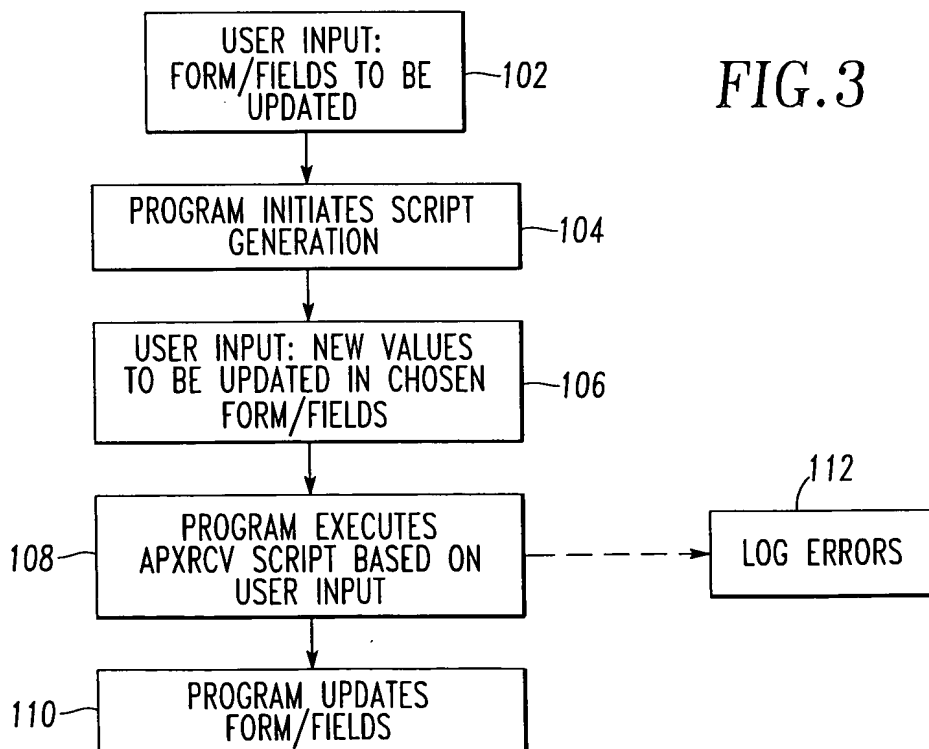


FIG. 1



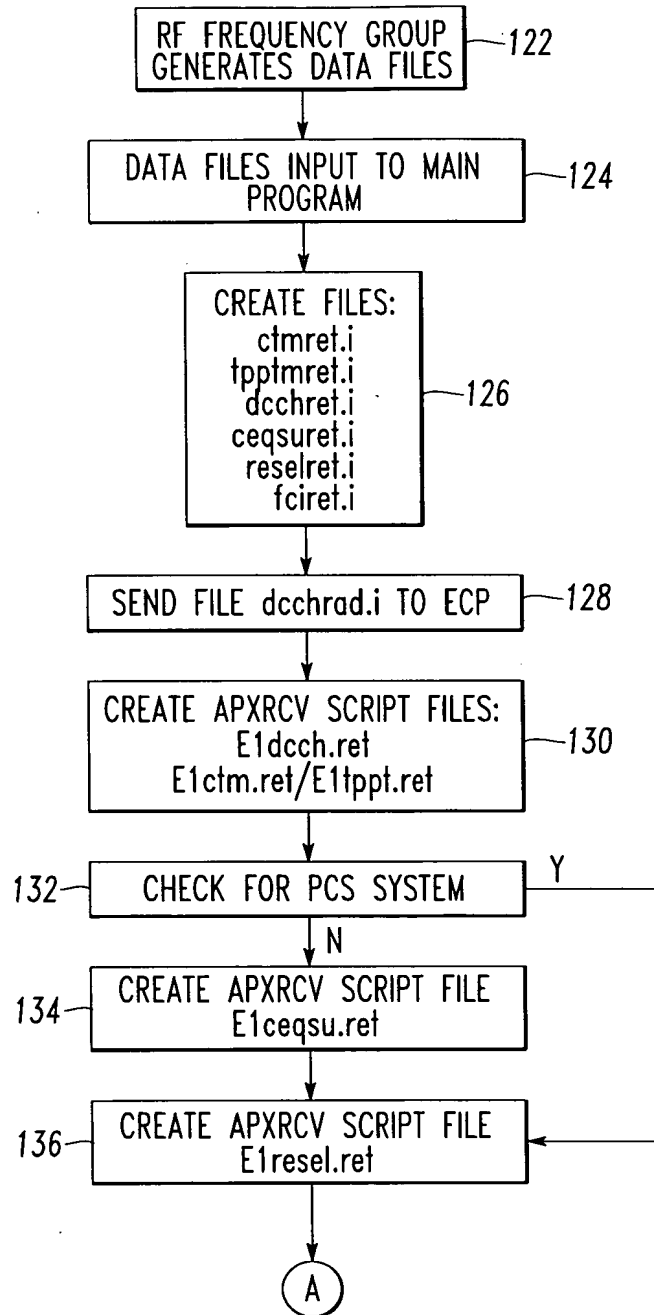


FIG. 4A

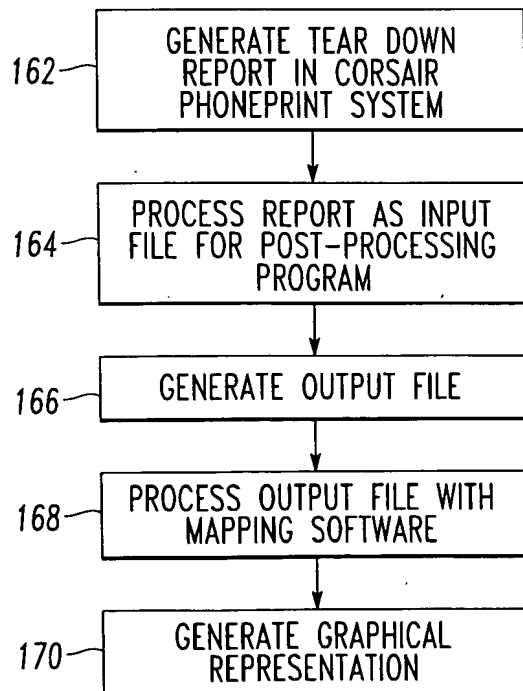
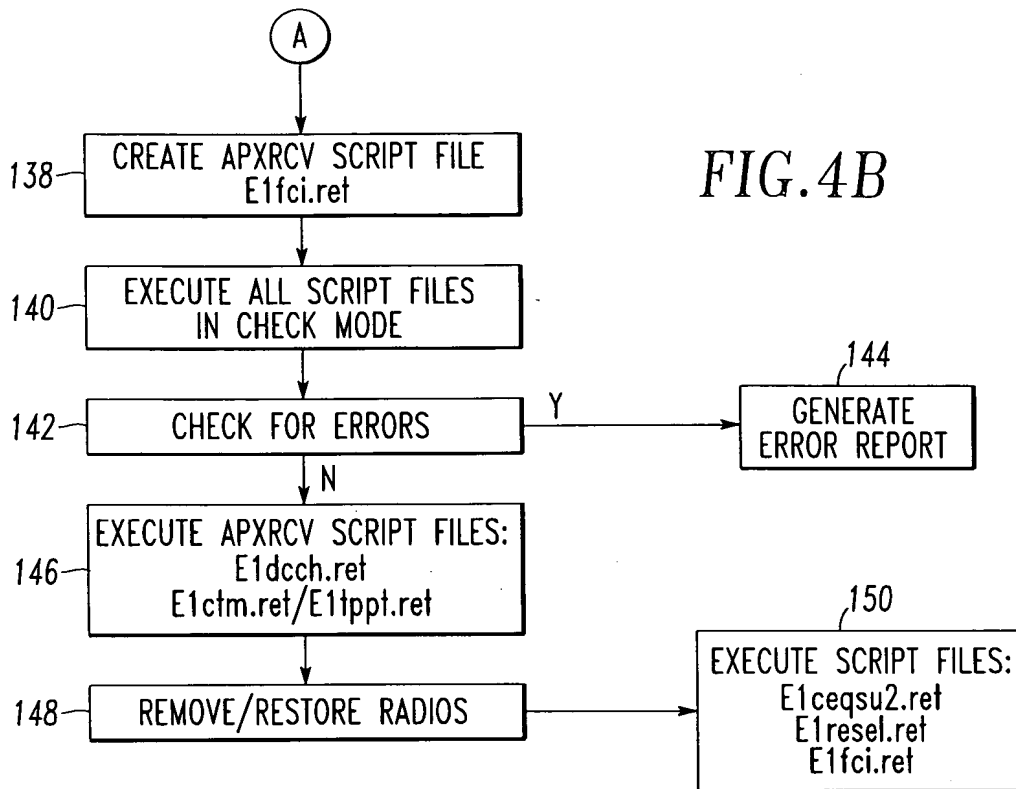


FIG. 5

>pg pp9912.txt

Date	Time(2)	Site_ID	MIN(1)	Dialed_Digits	Tear-Down_Reason
12/25/99	19:26:09	20	2012075854	12014981322	MFG
12/23/99	14:56:20	219	2012075854	5617767114	MFG
12/26/99	21:40:32	167	2012130072	19547814445	MFG
12/23/99	19:06:49	82	2012134416	9544289147	MFG
12/23/99	19:06:23	82	2012134416	9544289147	MFG
12/25/99	17:23:55	82	2012134416	9544285083	MFG
12/25/99	15:06:20	82	2012134416	2015680907	MFG
12/25/99	13:04:16	82	2012134416	2015680907	MFG
12/25/99	13:04:05	82	2012134416	2015680907	MFG
12/25/99	13:03:53	82	2012134416	2015680907	MFG
12/25/99	13:03:31	82	2012134416	2015680907	MFG
12/25/99	13:01:49	82	2012134416	2015680907	MFG
12/25/99	12:53:38	82	2012134416	2015680907	MFG
12/25/99	12:52:32	82	2012134416	2015680907	MFG
12/25/99	12:52:03	82	2012134416	2015680907	MFG
12/25/99	12:50:48	82	2012134416	2015680907	MFG
12/25/99	12:48:15	82	2012134416	2015680907	MFG
12/25/99	12:47:16	82	2012134416	5680907	MFG
12/24/99	11:58:50	82	2012134416	8003328463	MFG
12/24/99	11:58:08	82	2012134416	8003328463	MFG
12/24/99	10:03:16	82	2012134416	9544289147	MFG
12/22/99	14:58:09	80	2012300764	19546467166	MFG
12/29/99	10:54:28	177	2012499657	19086881800	MFG
12/29/99	10:51:49	177	2012499657	9412503698	MFG
12/29/99	10:25:04	145	2012499657	12012400657	MFG
12/29/99	10:24:42	145	2012499657	12012400657	MFG
12/27/99	21:26:01	49	2012476225	15616551115	MFG
12/24/99	19:22:48	219	2012476225	15615551212	MFG
12/24/99	19:22:26	219	2012476225	15615551212	MFG
12/24/99	19:22:06	219	2012476225	15615551212	MFG
12/24/99	19:13:38	219	2012476225	5617950022	MFG
12/27/99	12:01:06	20	2012476225	15614996976	MFG
12/23/99	16:23:47	12	2012640686	3105152822	MFG
12/23/99	16:17:19	12	2012640686	3105152822	MFG
12/23/99	16:17:03	12	2012640686	3105152822	MFG

FIG.6

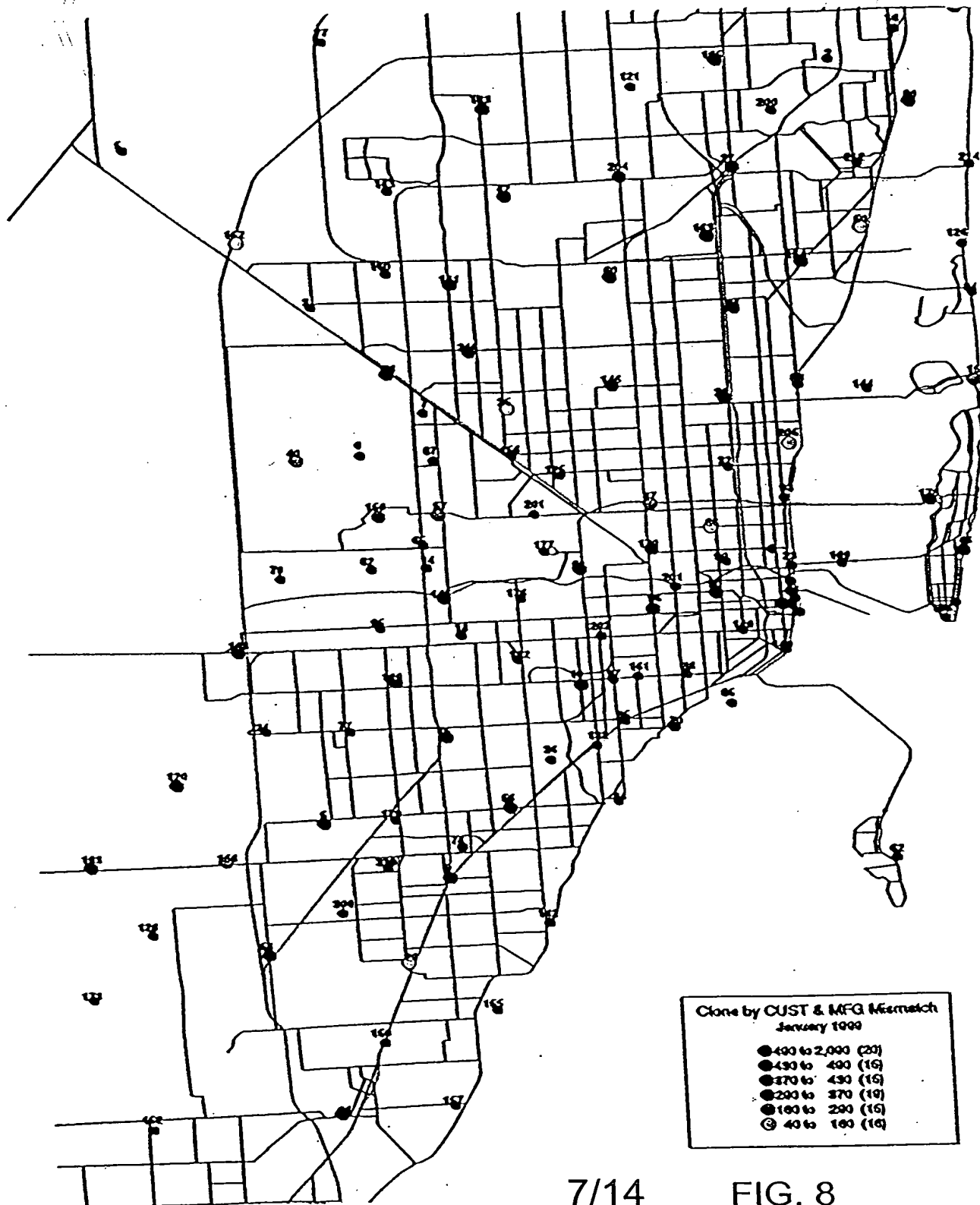
>pg map1299

ECP, CellNo,Longitude, Latitude,Count

4,1,-80.1675,26.155278,148
 3,5,-80.361111,25.699444,209
 1,6,-80.171667,26.36,675
 1,7,-80.144167,26.562778,173
 1,8,-80.109722,26.760556,76
 3,9,-80.317222,25.679444,311
 3,10,-80.266667,25.747222,115
 4,15,-80.123056,25.854167,510
 4,16,-80.198611,26.248889,401
 1,18,-80.088889,26.45,380
 1,20,-80.058611,26.651944,216
 4,22,-80.210833,25.848611,138
 4,23,-80.128889,26.085833,844
 4,25,-80.288889,25.845556,55
 1,26,-80.201111,26.630833,251
 4,27,-80.204722,25.93,590
 3,38,-80.360833,25.596667,255
 3,39,-80.333889,25.649444,584
 4,30,-80.415,26.086389,207
 4,31,-80.175833,26.121944,128
 1,37,-80.681389,26.686667,213
 4,40,-80.364444,25.828333,156
 4,42,-80.286944,25.920556,147
 4,43,-80.168056,26.024722,333
 3,46,-80.129167,25.793611,2694
 3,47,-80.238611,25.811389,121
 1,49,-80.051667,26.711944,381
 4,50,-80.160556,25.908611,187
 4,52,-80.26,26.121667,456
 4,53,-80.105556,26.136389,501
 3,54,-80.383333,25.653056,81
 4,55,-80.249444,26.268333,314
 3,56,-80.294722,25.703889,184
 3,57,-80.315,25.808333,21
 3,58,-80.265278,25.788333,267
 4,60,-80.25,25.891667,205
 4,61,-80.090833,26.230278,147
 4,64,-80.211667,26.0175,595

FIG. 7

09754237 044404



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FIG. 8



28.0069725,9412580201,T017C,MDVC-
15,0,1,0,2,0
28.0069725,9412580201,T017C,MDVC-
15,0,1,0,2,0
28.0069856,9412580201,T017C,MDVC-
15,0,2,0,2,1
28.0069856,9412580201,T017C,MDVC-
15,0,2,0,2,1
28.0070392,9412580201,T005B,MDVC-
2,0,4,0,2,1
28.0072014,9412580201,T005B,MDVC-
7,0,4,0,2,1
28.0072014,9412580201,T005B,MDVC-
7,0,4,0,2,1
28.0073900,9412580201,T005B,MDVC-
8,0,3,0,2,1
28.0073900,9412580201,T005B,MDVC-
8,0,3,0,2,1
28.0075761,9412580201,T005B,MDVC-
7,0,5,0,2,1
28.0075761,9412580201,T005B,MDVC-
7,0,5,0,2,1
592,9412580102,T005B

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9412580201

MOBILE TELEPHONE CELL TRAFFIC RECORDING
DIGITAL SIGNAL STRENGTH MEASUREMENTS

MSNB	CELL	DEV	SSFVC	SSRVC
9412580201	T017C	MDVC-1060	23	20
SSSTRVC	BERFVC	BERRVC	RBERRVC	FERRVC
6	3	2	2	0
BQRVC	TDRVC	FREQERR	TIMEALIGN	MSPOW
6	3	1	0	2
NCELL	NSSFFMC	MEASCHAN	VIND	
T017A	5	1260	Y	
T017B	23	1272	Y	
T006B	17	1300	Y	
T016B	13	1305	Y	
T004A	29	1251	Y	
T005B	33	1302	Y	
T005A	23	1290	Y	
T018A	21	1294	Y	
T154B	21	1303	Y	
TIMW	PRINTIND	FCODE		
11:08:27	0			

END

MOBILE TELEPHONE CELL TRAFFIC RECORDING CANDIDATE LIST FOR
HANDOFF

MSNB	CELL	TIME	FCODE	URGENCY
9412580201	T017C	11:08:28		0
CANDCELL	CELLTYPE	NTYPE	RATING	
T005B	0	STD	0	

END

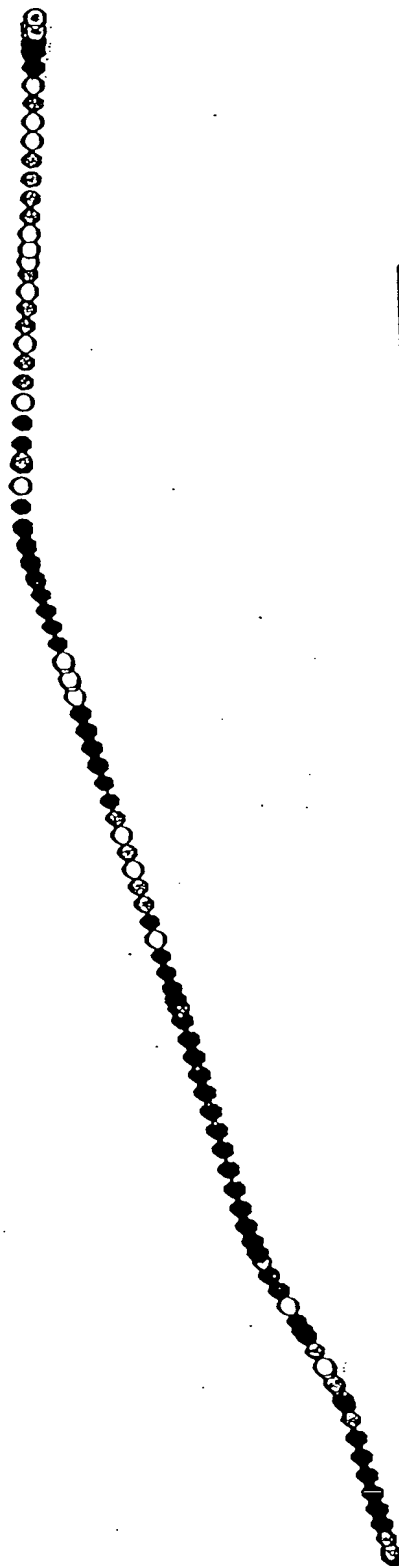
FIG.10

DATE,TIME,LONGITUDE,LATITUDE,ALT,SPEED,HEADING,DPS_MODE,PHONE_TASK,TASK_DESC,CHAN,RSSI,MODTYPE,SLOT,CHANTYPE,SAT,DVCC,POWER,BER,BER_CODE,SBI,T_A,CELL1.DISTANCE1,CELL2.DISTANCE2,CELL3.DISTANCE3,LOWER_CTOA,UPPER_CTOA,COCHA_RSSI,MARKER,CHAN_GRP,EVENT,EVINFO,BAND,LISTTYPE,LISTCT,CHAN1,RSSI1,CHAN2,RSSI2,CHAN3,RSSI3,CHAN4,RSSI4,CHAN5,RSSI5,CHAN6,RSSI6,CHAN7,RSSI7,CHAN8,RSSI8,CHAN9,RSSI9,CHAN10,RSSI10,CHAN11,RSSI11,CHAN12,RSSI12,CHAN13,RSSI13,CHAN14,RSSI14,CHAN15,RSSI15,CHAN16,RSSI16,CHAN17,RSSI17,CHAN18,RSSI18,CHAN19,RSSI19,CHAN20,RSSI20,CHAN21,RSSI21,CHAN22,RSSI22,CHAN23,RSSI23,CHAN24,RSSI24,CHAN25,RSSI25,REVISION

7/30/99,11:08:27,-
82.3321883,27.9813839,9,40.3,86.9,G8,5,Conversation,1218,-
93,D,3,V,3,5,2,0.87,3,0,0,,,,,14,15,-100,0,8,,,1,Neig,9,1284,-
89,1302,-93,1300,-103,1255,-107,1317,-109,1303,-109,1314,-111,1305,-
111,1315,-
113,0,4
7/30/99,10:52:47,-
82.3321883,27.9813839,9,40.3,86.9,G8,5,Conversation,1218,-
93,D,3,V,3,5,2,0.84,3,0,0,,,,,14,15,-100,0,8,,,1,Neig,9,1284-
89,1302,-93,1300,-103,1303,-107,1255,-109,1314,-111,1317,-111,1305,-
111,1315,-
113,0,4
7/30/99,10:52:48,-
82.33219553,27.9813947,10,43.1,,87.0,G8,5,Conversation,1218,-
93,D,3,V,3,5,2,0.84,3,0,0,,,,,10,38,-137,0,8,,,1,Neig,9,1284-
89,1302,-93,1300,-103,1303,-107,1255,-109,1314,-111,1317,-111,1305,-
111,1315,-
113,0,4
7/30/99,10:52:48,-
82.3319553,27.9813947,10,43.1,87.0,G8,5,Conversation,1218,-
95,D,3,V,3,5,2,0.84,3,0,0,,,,,10,38,-137,0,8,,,1,Neig,9,1284-
83,1302,-93,1300,-101,1303,-105,1255,-109,1305,-111,1314,-113,1315,-
113,1317,-
113,0,4
7/30/99,10:52:49,-
82.3317164,27.9814044,10,44.7,87.2,G8,5,Conversation,1218,-
95,D,3,V,3,5,2,0.99,3,0,0,,,,,10,38,-137,0,8,,,1,Neig,9,1284-
83,1302,-93,1300,-101,1303,-105,1255,-109,1305,-111,1314,-113,1315,-
111,1317,-
113,0,4

FIG. 11A

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xi0_0dd by FVC-118

●	73	b-41	(34)
○	73	b-73	(45)
⊗	83	b-73	(46)
●	83	b-83	(27)
●	86	b-86	(47)

FIG.12

40440" 832T660

COMARCO FILE

13:20:00.8,26.677,-81.567
 12:20:01.2,25.230,-81.456

.....
 13.21.00.3,28.655,-81.2128

FIG.13A

Time,Long,Lat,CellNo,SS,

12:41:29,28,6559300,-18.205792000,1353,-124
 12:41:29,28,6559300,-18.205792000,201,-106
 12:41:29,28,6559300,-18.205792000,32,-106
 12:41:29,28,6559300,-18.205792000,321,-76
 12:41:29,28,6559300,-18.205792000,323,-66
 12:41:29,28,6559300,-18.205792000,831,-100
 12:41:30,28,6559260,-18.205580000,323,-66
 12:41:31,28,6559170,-18.205380000,321,-75
 12:41:31,28,6559170,-18.205380000,321,-75
 12:41:31,28,6559170,-18.205380000,323,-64
 12:41:32,28,6559080,-18.205198000,323,-63
 12:41:33,28,6558950,-18.204922000,321,-73
 12:41:33,28,6558950,-18.204922000,323,-62
 12:41:34,28,6558900,-18.204769000,321,-73
 12:41:34,28,6558900,-18.204769000,321,-73
 12:41:34,28,6558900,-18.204769000,322,-98
 12:41:34,28,6558900,-18.204769000,323,-61
 12:41:35,28,6558900,-18.204577000,1353,-124
 12:41:35,28,6558900,-18.204577000,201,-105
 12:41:35,28,6558900,-18.204577000,202,-106
 12:41:35,28,6558900,-18.204577000,32,-105
 12:41:35,28,6558900,-18.204577000,323,-63
 12:41:35,28,6558900,-18.204577000,831,-99
 12:41:37,28,6558970,-18.204219000,321,-73
 12:41:37,28,6558970,-18.204219000,323,-67
 12:41:38,28,6559000,-18.204044000,321,-74
 12:41:38,28,6559000,-18.204044000,323,-67
 12:41:38,28,6559000,-18.204044000,321,-74
 12:41:38,28,6559000,-18.204044000,323,-67
 12:41:40,28,6559020,-18.203683000,1353,-122
 12:41:40,28,6559020,-18.203683000,202,-104
 12:41:40,28,6559020,-18.203683000,32,-105
 12:41:40,28,6559020,-18.203683000,321,-73
 12:41:40,28,6559020,-18.203683000,322,-96
 12:41:40,28,6559020,-18.203683000,323,-67
 12:41:41,28,6559070,-18.203457000,321,-72
 12:41:41,28,6559070,-18.203457000,323,-66
 12:41:42,28,6559100,-18.203125000,321,-71
 12:41:42,28,6559100,-18.203125000,323,-66

FIG.13B

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```

v-----Record #      1:-----v
05/10/99 13:22:05 ALM INF 4103 7 32      G      TC      457
      Call Monitor: Call Record has been Written in RAM disk
      Ph#: (407)9223002 Call clear by MS - mobile clear
v-----Record #      2:-----v
05/10/99 13:22:04 ALM INF 4113 7 32      G      TC      457
      Call Monitor: Call RSSI value
      (407)9223002 cell 323 rssi -77 attn 4 snr 40
v-----Record #      3:-----v
05/10/99 13:22:04 ALM INF 4117 7 32      G      SRC
      Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
      (407)9223002 Cell_id RSSI:/323 / -73
v-----Record #      264:-----v
05/10/99 13:21:00 ALM INF 4117 7 20      A      SRC
      Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
      (407)9223002 Cell_id RSSI:/201 / -98
v-----Record #      265:-----v
05/10/99 13:21:00 ALM INF 4117 7 32      B      SRC
      Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
      (407)9223002 Cell_id RSSI:/322 / -103
v-----Record #      266:-----v
05/10/99 13:21:00 ALM INF 4117 7 83      A      SRC
      Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
      (407)9223002 Cell_id RSSI:/861 / -96
v-----Record #      267:-----v
05/10/99 13:21:00 ALM INF 4117 7 32      A      SRC
      Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
      (407)9223002 Cell_id RSSI:/321 / -78
v-----Record #      268:-----v
05/10/99 13:21:00 ALM INF 4117 7 135      G      SRC
      Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
      (407)9223002 Cell_id RSSI:/1353 / -113
v-----Record #      269:-----v
05/10/99 13:21:00 ALM INF 4117 7 20      B      SRC
      Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
      (407)9223002 Cell_id RSSI:/302 / -100
v-----Record #      270:-----v
05/10/99 13:21:00 ALM INF 4113 7 32      G      TC      457
      Call Monitor: Call RSSI value
      (407)9223002 cell 323 rssi -72 attn 4 snr 40
v-----Record #      271:-----v
05/10/99 13:21:00 ALM INF 4117 7 32      G      SRC
      Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
      (407)9223002 Cell_id RSSI:/323 / -71
v-----Record #      272:-----v
05/10/99 13:21:00 ALM INF 4117 7 3      B      SRC
      Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
      (407)9223002 Cell_id RSSI:/32 / -115

```

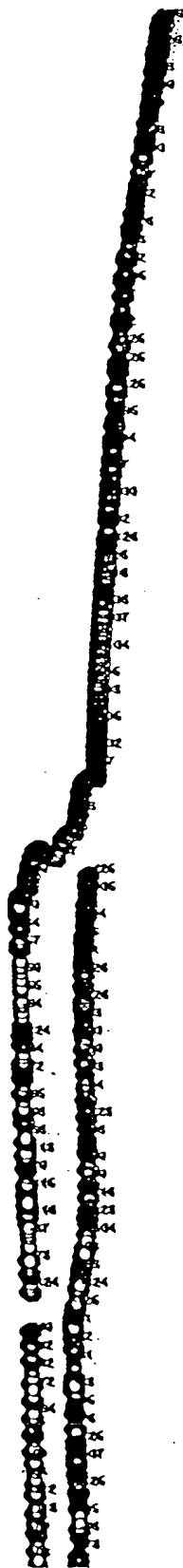
FIG.14

09751237 041101

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09754237 044404

FIG.15



tre0528_out by SS		
○	-65 to -66	(300)
●	-62 to -65	(514)
●	-64 to -62	(493)
●	-106 to -94	(540)
●	-116 to -106	(462)
●	-127 to -116	(505)